

Application No. 09/771,138
Amendment "1" dated December 28, 2005
Reply to Office Action mailed September 22, 2005

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) At a mobile gateway in a computerized system that includes a content server, the mobile gateway, and a first and a second mobile client, the first and second mobile clients differing from each other in at least one operating characteristic, wherein the mobile gateway receives content that is addressed to the first and second mobile clients from the content server, a method of customizing the content based on at least one operating characteristic of each mobile client, wherein the customizing avoids further processing at the content server, the method comprising a mobile gateway performing the acts of:

assigning a first transform to the first mobile client and assigning a second transform to the second mobile client, the first and second transforms specifically considering one or more operating characteristics of the first and second mobile clients;

receiving a list from the content server containing addresses for a plurality of mobile clients, including the first mobile client and the second mobile client;

receiving content from the content server, the content being addressed to the list, wherein the content has not yet been altered in accordance with the first or second transform;

~~identifying from one or more of the received content and the received list~~
determining at the mobile gateway that the first transform and the second transform are to be applied to the received content upon the mobile gateway identifying that the list includes an address for the first mobile client and an address for the second mobile client;

altering the content at the mobile gateway according to the first and second transforms so that the content is compatible with the one or more operating characteristics of the first and second mobile clients, the altered content comprising a first transformed content and a second transformed content;

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~~identifying an address for each mobile client contained within the list, including the first mobile client and the second mobile client;~~

addressing the first transformed content to the first mobile device and addressing the second transformed content to the second mobile device using the plurality of addresses received in the list;

establishing a communication link between the mobile gateway and the first and second mobile clients; and

sending the first transformed content to the first mobile client and sending the second transformed content to the second mobile client.

2. (Original) A method as recited in claim 1 further comprising the act of at least one of the transforms encrypting the content.

3. (Original) A method as recited in claim 1 further comprising the act of at least one of the transforms compressing the content.

4. (Previously Presented) A method as recited in claim 1 wherein at least one of the mobile clients is one of a telephone, a pager, a personal digital assistant, or a cascaded mobile gateway.

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5. (Previously Presented) A method as recited in claim 1 wherein the first transformed content comprises a notification that additional content is available at the content server, the method further comprising the acts of:

receiving a request for the additional content from the first mobile client,

retrieving the additional content from the content server, wherein the additional content has not been altered in accordance with any one or more of the first or second transforms;

altering the additional content according to the first transform so that the content is compatible with the one or more operating characteristics of the first mobile client, the act of altering producing a first transformed additional content; and

sending the first transformed additional content to the first mobile client.

6. (Currently Amended) A method as recited in claim 1 wherein the one or more operating characteristics considered by the first and second transforms include the first and second mobile client's memory capabilities, and at least one of the first or second mobile client's software, processor, memory, display, or communication link.

7. (Original) A method as recited in claim 1 wherein the computerized system includes a third mobile client, the method further comprising the acts of:

assigning the first transform to the third mobile client, the first transform specifically considering one or more operating characteristics of the third mobile client; and

sending the first transformed content to the third mobile client.

8. (Canceled).

9. (Previously Presented) A method as recited in claim 1 wherein the content comprises one of email, calendar, contact, task, Web, notification, financial, configuration, or sports content.

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10. (Currently Amended) At a mobile gateway in a computerized system that includes a content server, the mobile gateway, and a first mobile client, wherein the mobile gateway receives from the content server, content that is addressed to the first mobile client, a method of customizing the content based on at least one operating characteristic of the first mobile client, wherein the customizing avoids further processing at the content server, the method comprising a mobile gateway performing the acts of:

assigning a first transform to the a first mobile client and a second transform to a second mobile client, the first transform specifically considering one or more operating characteristics of the first mobile client, the second transform specifically considering one or more operating characteristics of the second mobile client;

determining at the mobile gateway that a change has occurred in at least one service-available-to-with the one or more operating characteristics of the first mobile client, such that prior hardware or software configuration information of the first mobile client is incompatible with a current version of the at least one service;
the first transform;

creating first transformed configuration information an updated first transform at the mobile gateway, wherein the updated first transformed configuration information is consistent with the change in the at least one service;
operating characteristics of the first mobile client;

receiving content from the content server;

altering the content at the mobile gateway according to the updated first transform and with the second transform so that the content is compatible with the change in the one or more operating characteristics of the first mobile client and with the one or more operating characteristics of the second mobile client and the change to the at least one service;
the altered content comprising a first transformed content;

establishing a communication link between the mobile gateway and the first mobile client; and

the mobile gateway sending the content altered in accordance with the updated first transformed content and the first transformed configuration information to the first

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mobile client, and sending the content altered in accordance with the second transform to the second mobile client.

11. (Currently Amended) A method as recited in claim 10 wherein the one or more operating characteristics considered by the updated first transform include the first mobile client's memory capabilities, and at least one of the first mobile client's software, processor, memory, display, or communication link.

12. (Original) A method as recited in claim 10 further comprising the act of the first transform encrypting the content.

13. (Original) A method as recited in claim 10 further comprising the act of the first transform compressing the content.

14. (Currently Amended) A method as recited in claim 10 wherein the first transformed content comprises a notification that additional content is available at the content server, the method further comprising the acts of:

receiving a request for the additional content from the first mobile client;
retrieving the additional content from the content server;
altering the additional content according to the updated first transform so that the content is compatible with the change in one or more operating characteristics of the first mobile client, the act of altering producing a first transformed additional content; and
sending the first transformed additional content to the first mobile client.

15. (Previously Presented) A method as recited in claim 10 wherein the first mobile client is one of a telephone, a pager, a personal digital assistant, or a cascaded mobile gateway.

16. (Previously Presented) A method as recited in claim 10 wherein the content comprises one of email, calendar, contact, task, Web, notification, financial, configuration, or sports content.

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17. (Currently Amended) A method as recited in claim 10 ~~wherein the computerized system includes a second mobile client~~, the method further comprising the acts of:

assigning ~~updating~~ the second transform to the second mobile client, the updated second transform specifically considering a change in one or more operating characteristics of the second mobile client;

altering the content according to the updated second transform at the mobile gateway so that the content received from the content server is compatible with the change in one or more operating characteristics of the second mobile client, ~~the altered content comprising a second transformed content~~;

establishing a communication link between the mobile gateway and the second mobile client; and

sending the content altered according to the updated second transformed content to the second mobile client.

18. (Original) A method as recited in claim 17 wherein the content received from the content server is addressed to a list containing the first and second mobile clients, the method further comprising the act of addressing the content specifically to the first mobile client and to the second mobile client as defined in the list.

19. (Original) A method as recited in claim 17 wherein the computerized system includes a third mobile client, the method further comprising the acts of:

assigning the first transform to the third mobile client, the first transform specifically considering one or more operating characteristics of the third mobile client; and

sending the first transformed content to the third mobile client.

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20. (Cancelled).

21. (Currently Amended) A method as recited in claim 2036 wherein at least one of the first or second mobile clients is one of a telephone, a pager, a personal digital assistant, or a cascaded mobile gateway.

22. (Currently Amended) A method as recited in claim 2036 wherein the first transformed content comprises a notification that additional content is available at the content server, the method further comprising steps for:

producing a first additional transformed content based on a content transform associated with the first mobile client; and

providing the first additional transformed content to the first mobile client.

23. (Currently Amended) A method as recited in claim 2036 wherein the one or more operating characteristics considered by the content transforms include the mobile client's memory capabilities, and at least one of the mobile clients' software, processor, ~~memory~~, display, or communication link.

24. (Currently Amended) A method as recited in claim 2036 wherein the computerized system includes a third mobile client, the method further comprising a step for providing content transformed by an updated first content transform ~~the first transformed content~~ to the third mobile client, due to similarities in one or more operating characteristics of the first and third mobile clients.

25. (Cancelled).

26. (Currently Amended) A method as recited in claim 2036 wherein the content comprises one of email, calendar, contact, task, Web, notification, financial, configuration, or sports data.

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27. (Currently Amended) In a computerized system that includes a content server, a mobile gateway, and a first mobile client, wherein the mobile gateway receives from the content server, content that is addressed to the first mobile client, a computer program product for implementing a method of customizing the content based on at least one operating characteristic of the first mobile client, wherein the customizing avoids further processing at the content server, comprising:

a computer readable medium for carrying machine-executable instructions for implementing the method at a mobile gateway; and

wherein said method is comprised of machine-executable instructions for performing the acts of:

assigning a first configuration transform to the first mobile client, the first configuration transform customizing configuration information for one or more services available to the first mobile client;

assigning a first transform to the first mobile client, the first transform specifically considering one or more operating characteristics of the first mobile client;

determining that a change has occurred in at least one service available to the first mobile client;

receiving content and a recipient list for the content from the content server, wherein the content has not yet been altered in accordance with the first or second transform;

identifying from ~~one or more of the received content and the received recipient list for the content~~ that the first transform and the second transform are to be applied;

altering the content according to the first transform so that the content is compatible with the one or more operating characteristics of the first mobile client, the altered content comprising a first transformed content;

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customizing configuration information relative to the change in the at least one service available to the first mobile client based on the first configuration transform to provide first transformed configuration information;

establishing a communication link between the mobile gateway and the first mobile client; and

sending the first transformed content and the first transformed configuration information to the first mobile client.

28. (Currently Amended) A computer program product as recited in claim 27 wherein the one or more operating characteristics considered by the first transform include the first mobile client's memory at least one of the first mobile client's software, processor, memory, display, or communication link.

29. (Original) A computer program product as recited in claim 27, the method comprised further of machine-executable instructions for the first transform performing the act of encrypting the content.

30. (Original) A computer program product as recited in claim 27, the method comprised further of machine-executable instructions for the first transform performing the act of compressing the content.

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31. (Original) A method as recited in claim 27 wherein the first transformed content comprises a notification that additional content is available at the content server, the method comprised further of machine-executable instructions for performing the acts of:

receiving a request for the additional content from the first mobile client,

retrieving the additional content from the content server, wherein the additional content has not been altered in accordance with any one or more of the first or second transforms;

altering the additional content according to the first transform so that the content is compatible with the one or more operating characteristics of the first mobile client, the act of altering producing a first transformed additional content; and

sending the first transformed additional content to the first mobile client.

32. (Previously Presented) A computer program product as recited in claim 27 wherein the first mobile client is one of a telephone, a pager, and a personal digital assistant and wherein the content comprises one of email, calendar, contact, task, Web, notification, financial, configuration, or sports data.

33. (Original) A computer program product as recited in claim 27 wherein the computerized system includes a second mobile client, the method comprised further of machine-executable instructions for performing the acts of:

assigning a second transform to the second mobile client, the second transform specifically considering one or more operating characteristics of the second mobile client;

altering the content according to the second transform so that the content is compatible with the one or more operating characteristics of the second mobile client, the altered content comprising a second transformed content;

establishing a communication link between the mobile gateway and the second mobile client; and

sending the second transformed content to the second mobile client.

34. (Original) A computer program product as recited in claim 33 wherein the content received from the content server is addressed to a list containing the first and second

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mobile clients, the method comprised further of machine-executable instructions for performing the act of addressing the content specifically to the first mobile client and to the second mobile client as defined in the list.

35. (Original) A computer program product as recited in claim 33 wherein the computerized system includes a third mobile client, the method comprised further of machine-executable instructions for performing the acts of:

assigning the first transform to the third mobile client, the first transform specifically considering one or more operating characteristics of the third mobile client; and sending the first transformed content to the third mobile client.

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36. (New) At a mobile gateway in a computerized system in which the mobile gateway receives content intended to be pushed to mobile clients from a content server, a method of the mobile gateway customizing the content from the content server based one or more operating characteristics identified for a plurality of intended recipients, comprising the acts of:

receiving content from a content server at the mobile gateway, wherein the content is addressed by the content server to at least a first mobile client, a second mobile client, and a different mobile gateway;

a step for determining at the mobile gateway an appropriate content transform for each of the first mobile client, the second mobile client, and for the different mobile gateway based on detected operating characteristics for each of the first mobile client, the second mobile client, and for the different mobile gateway;

assigning at the mobile gateway a first content transform to the first mobile client, a second content transform to the second mobile client, and a third content transform to the different mobile gateway, wherein the first, second, and third content transforms correspond to the detected one or more operating characteristics of the first mobile client, the second mobile client, and the devices managed by the different mobile gateway;

the mobile gateway sending content transformed by an updated first content transform to the first mobile client, content transformed by the second content transform to the second mobile client, and content transformed by the third content transform to the different mobile gateway.

37. (New) A method as recited in claim 36, wherein the step for determining an appropriate transform comprises the acts of:

identifying one or more operating characteristics for each of the first mobile client and the second mobile client;

identifying one or more operating characteristics for devices managed by the different mobile gateway; and

updating the first transform upon identifying a change in memory capacity of the first mobile client.

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38. (New) A method as recited in claim 37, further comprising the acts of:
- receiving new content from the content server, wherein at least a portion of the new content is too large for the first mobile client based on the change in memory capacity of the first mobile client;
 - transforming the new content in accordance with the second content transform and in accordance with the third content transform; and
 - sending the transformed new content to the second mobile client, and the different mobile gateway, but not to the first mobile client.

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